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File: USPT

Sep 22, 1998

DOCUMENT-IDENTIFIER: US 5811307 A

TITLE: Dicationic perylene dye for precipitation and quantitation of DNA

Brief Summary Text (4):

There are sensitive methods to analyze DNA by using one of several fluorescent dyes. For example, Hoechst 33258 is a commonly used DNA groove binding dye available in a DNA analysis kit (Hoefer Scientific Instruments). This method is dependent on the DNA type, however, because the dye binds sequence-selectively and the fluorescence enhancement is largely dependent on the A-T content (Stokke, T. and Steen, H. B., 1985, J. Histochem. Cytochem. 33, 333-338). All such methods render the DNA used for analyses essentially unavailable, which can be a major limitation when working with trace amounts.